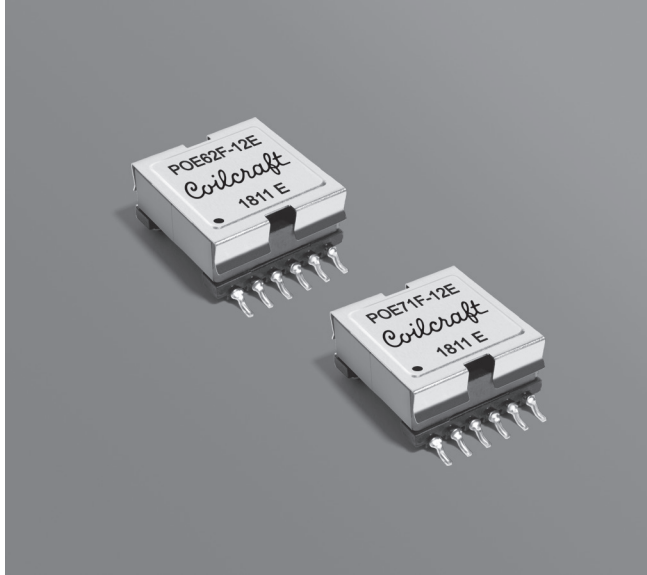


NEW!

High Power PoE Flyback Transformers



- Developed for Flyback DC/DC PoE PD power converters up to 71 W
- Designed to meet the upcoming IEEE802.3bt standard and operates with 36 – 57 V input
- 1500 Vrms, one minute isolation (hipot) between primary and auxiliary to secondary.
- Perfect solution for high power PoE applications including Smart Building and IoT

Core material Ferrite

Environment RoHS compliant, halogen free

Terminations Tin-silver-copper over tin over nickel over phos bronze.

Weight 12 g – 14 g

Ambient temperature –40°C to +125°C

Maximum part temperature +165°C (Ambient + temp rise)

Storage temperature Component: –40°C to +165°C

Tape and reel packaging: –40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

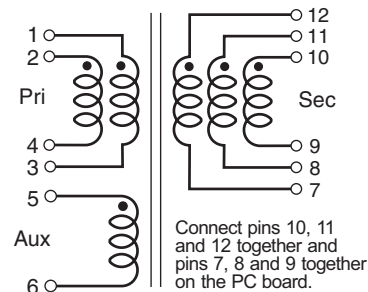
Failures in Time (FIT) / Mean Time Between Failures (MTBF)

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Part number ¹	Power (W)	Inductance at 0 A ² ±10% (µH)	DCR max (mOhms)			Leakage inductance ³ max (µH)	Turns ratio		Isat ⁴ (A)	Output ⁵
			pri	sec	aux		pri : sec : aux			
POE62F-33ED	62	22.2	34.9	2	130	0.50	1 : 0.143 : 0.50	5.4	3.3 V, 17.1 A	
POE62F-50ED	62	22.2	34.9	2.8	130	0.38	1 : 0.214 : 0.50	5.4	5 V, 11.3 A	
POE62F-12ED	62	17.8	18.9	9.2	108	0.17	1 : 0.5 : 0.50	5.7	12 V, 4.7 A	
POE62F-24ED	62	17.8	18.9	36.3	108	0.12	1 : 1 : 0.50	5.7	24 V, 2.4 A	
POE62F-48ED	62	17.8	18.9	140	108	0.11	1 : 2 : 0.50	5.7	48 V, 1.2 A	
POE71F-33ED	71	18.9	34.9	2	130	0.50	1 : 0.143 : 0.50	6.3	3.3 V, 19.7 A	
POE71F-50ED	71	18.9	34.9	2.8	130	0.38	1 : 0.214 : 0.50	6.3	5 V, 13 A	
POE71F-12ED	71	15.5	18.9	9.2	108	0.17	1 : 0.5 : 0.50	6.6	12 V, 5.4 A	
POE71F-24ED	71	15.5	18.9	36.3	108	0.12	1 : 1 : 0.50	6.6	24 V, 2.7 A	
POE71F-48ED	71	15.5	18.9	140	108	0.11	1 : 2 : 0.50	6.6	48 V, 1.35 A	

- Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (175 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
 - Inductance is for the primary, measured at 250 kHz, 0.5 Vrms, 0 Adc.
 - Leakage inductance is for the primary with the secondary and aux windings shorted.
 - DC current at 25°C that causes an inductance drop of <10% from its value without current.
 - Output is for the secondary. Output of the aux winding is 12 V, 30 mA.
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

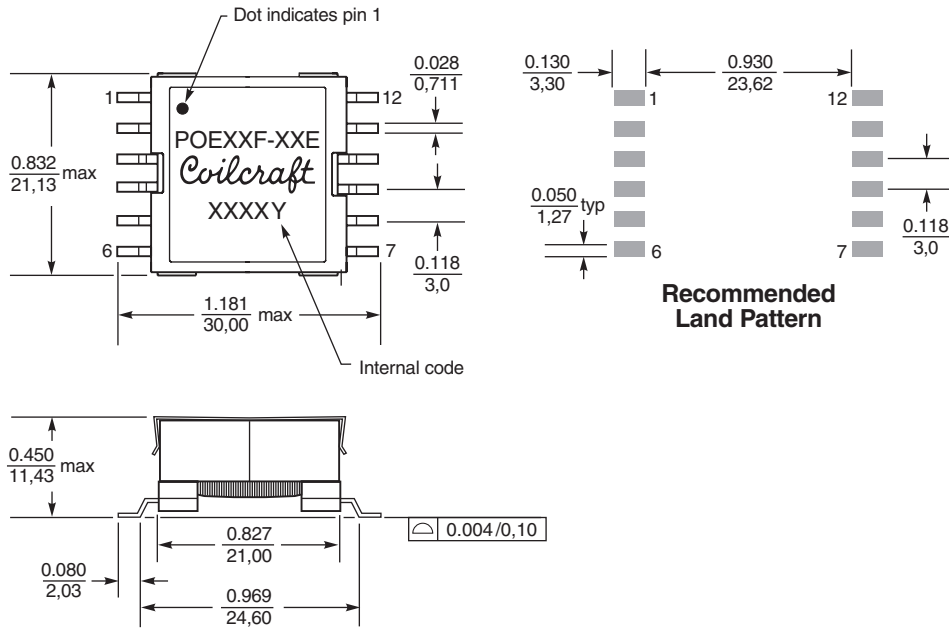
Schematics



Connect pin 1 to 2 and pin 3 to 4 on the PC board.



Flyback Transformers for PoE



Dimensions are in $\frac{\text{inches}}{\text{mm}}$

Packaging 175 per 13" reel Plastic tape: 44 mm wide, 0.5 mm thick, 32 mm pocket spacing, 12 mm pocket depth



US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

Document 1516-2 Revised 12/07/18
 © Coilcraft Inc. 2018
 This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.